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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,586	07/09/2002	Hidekazu Suzuki	2002-0384A	4888

513 7590 09/30/2005

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EXAMINER

TRAN, TRANG U

ART UNIT PAPER NUMBER

2614

DATE MAILED: 09/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/088,586	Applicant(s) SUZUKI ET AL.	
	Examiner Trang U. Tran	Art Unit 2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 March 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-10 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-3 and 9, drawn to a signal transmitter which is connected to a signal receiver via a transmission line.

Group II, claim(s) 4, drawn to a signal transmitter according to DVI transmission standard.

Group III, claim(s) 5-7 and 10, drawn to a signal receiver which is connected to a signal transmitter via a transmission line.

Group IV, claim(s) 8, drawn to a signal receiver according to DVI transmission standard.

2. The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The invention of Group I is directed a signal transmitter which is connected to a signal receiver via a transmission line comprising a time-base compression means for time-base-compressing a first signal; a multiplexing control signal generator for generating a multiplexing control signal on a basis of a second signal; a signal multiplexing means for multiplexing the time-base-compressed first signal, the second signal and a third signal, employing the multiplexing control signal generated by the multiplexing control signal generator, and outputting a multiplexed signal; and a signal transmitting means for transmitting the multiplexed signal and the multiplexing control signal to the signal receiver. The invention of Group I does not relate to a signal transmitter according to DVI transmission standard which transmits RGB video signals as serial data having: a first mode of transmitting the RGB video signals as serial data, and a second mode of transmitting three signals corresponding to a luminance signal, a color difference signal and an audio signal, the signal transmitter comprising a switching means for switching between the first mode and the second mode of Group II, does not relate to a signal receiver comprising a first receiving means for receiving a multiplexed

Art Unit: 2614

signal in which a time-base-multiplexed first signal, a second signal, and a third signal are multiplexed, from the signal transmitter; a second receiving means for receiving a multiplexing control signal from the signal transmitter; a demultiplexing means for demultiplexing the multiplexed signal received by the first receiving means into the first and second signals, employing the multiplexing control signal received by the second receiving means; and a time-base decompression means for time-base-decompressing the first signal obtained by the demultiplexing means of Group III, and does not relate to a signal receiver according to DVI transmission standard which received RGB video signals as serial data having a first mode of receiving the RGB video signals as serial data and a second mode of receiving three signals corresponding to a luminance signal, a color difference signal and an audio signal, the signal receiver comprising a switching means for switching between the first mode and the second mode of Group IV.

The invention of Group II is direct to a signal transmitter according to DVI transmission standard which transmits RGB video signals as serial data having: a first mode of transmitting the RGB video signals as serial data, and a second mode of transmitting three signals corresponding to a luminance signal, a color difference signal and an audio signal, the signal transmitter comprising a switching means for switching between the first mode and the second mode. The invention of Group II does not relate to a signal transmitter which is connected to a signal receiver via a transmission line comprising a time-base compression means for time-base-compressing a first signal; a multiplexing control signal generator for generating a multiplexing control signal on a basis of a second signal; a signal multiplexing means for multiplexing the time-base-compressed first signal, the second signal and a third signal, employing the multiplexing control signal generated by the multiplexing control signal generator, and outputting a multiplexed signal; and a signal transmitting means for transmitting the multiplexed signal and the multiplexing control signal to the signal receiver of Group I, does not relate to a signal receiver comprising a first receiving means for receiving a multiplexed signal in which a time-base-multiplexed first signal, a second signal, and a third signal are multiplexed, from the signal transmitter; a second receiving means for receiving a multiplexing control signal from the signal transmitter; a demultiplexing means for demultiplexing the multiplexed signal received by the first receiving means into the first and second signals, employing the multiplexing control signal received by the second receiving means; and a time-base decompression means for time-base-decompressing the first signal obtained by the demultiplexing means of Group III, and does not relate to a signal receiver according to DVI transmission standard which received RGB video signals as serial data having a first mode of receiving the RGB video signals as serial data and a second mode of receiving three signals corresponding to a luminance signal, a color difference signal and an audio signal, the signal receiver comprising a switching means for switching between the first mode and the second mode of Group IV.

The invention of Group III is direct to a signal receiver comprising a first receiving means for receiving a multiplexed signal in which a time-base-multiplexed first signal, a second signal, and a third signal are multiplexed, from the signal transmitter; a second receiving means for receiving a multiplexing control signal from the signal transmitter; a demultiplexing means for demultiplexing the multiplexed signal received by the first

Art Unit: 2614

receiving means into the first and second signals, employing the multiplexing control signal received by the second receiving means; and a time-base decompression means for time-base-decompressing the first signal obtained by the demultiplexing means. The invention of Group III does not relate to a signal transmitter which is connected to a signal receiver via a transmission line comprising a time-base compression means for time-base-compressing a first signal; a multiplexing control signal generator for generating a multiplexing control signal on a basis of a second signal; a signal multiplexing means for multiplexing the time-base-compressed first signal, the second signal and a third signal, employing the multiplexing control signal generated by the multiplexing control signal generator, and outputting a multiplexed signal; and a signal transmitting means for transmitting the multiplexed signal and the multiplexing control signal to the signal receiver of Group I, does not relate to a signal transmitter according to DVI transmission standard which transmits RGB video signals as serial data having: a first mode of transmitting the RGB video signals as serial data, and a second mode of transmitting three signals corresponding to a luminance signal, a color difference signal and an audio signal, the signal transmitter comprising a switching means for switching between the first mode and the second mode of Group II, and does not relate to a signal receiver according to DVI transmission standard which received RGB video signals as serial data having a first mode of receiving the RGB video signals as serial data and a second mode of receiving three signals corresponding to a luminance signal, a color difference signal and an audio signal, the signal receiver comprising a switching means for switching between the first mode and the second mode of Group IV.

The invention of Group IV is directed to a signal receiver according to DVI transmission standard which received RGB video signals as serial data having a first mode of receiving the RGB video signals as serial data and a second mode of receiving three signals corresponding to a luminance signal, a color difference signal and an audio signal, the signal receiver comprising a switching means for switching between the first mode and the second mode. The invention of Group IV does not relate to a signal transmitter which is connected to a signal receiver via a transmission line comprising a time-base compression means for time-base-compressing a first signal; a multiplexing control signal generator for generating a multiplexing control signal on a basis of a second signal; a signal multiplexing means for multiplexing the time-base-compressed first signal, the second signal and a third signal, employing the multiplexing control signal generated by the multiplexing control signal generator, and outputting a multiplexed signal; and a signal transmitting means for transmitting the multiplexed signal and the multiplexing control signal to the signal receiver of Group I, does not relate to a signal transmitter according to DVI transmission standard which transmits RGB video signals as serial data having: a first mode of transmitting the RGB video signals as serial data, and a second mode of transmitting three signals corresponding to a luminance signal, a color difference signal and an audio signal, the signal transmitter comprising a switching means for switching between the first mode and the second mode of Group II, and does not relate to a signal receiver comprising a first receiving means for receiving a multiplexed signal in which a time-base-multiplexed first signal, a second signal, and a third signal are multiplexed, from the signal transmitter; a second

Art Unit: 2614

receiving means for receiving a multiplexing control signal from the signal transmitter; a demultiplexing means for demultiplexing the multiplexed signal received by the first receiving means into the first and second signals, employing the multiplexing control signal received by the second receiving means; and a time-base decompression means for time-base-decompressing the first signal obtained by the demultiplexing means of Group III.

3. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang U. Tran whose telephone number is (571) 272-7358. The examiner can normally be reached on 8:00 AM - 5:30 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Miller can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2614

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TT
September 26, 2005



Trang U. Tran
Examiner
Art Unit 2614